

WEST Search History

DATE: Monday, March 27, 2006

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L92	L91 and (user near5 queries)	7
<input type="checkbox"/>	L91	L90 and user\$1	12
<input type="checkbox"/>	L90	l88 and concurrent	12
<input type="checkbox"/>	L89	L88 and (concurrent near5 search\$3)	0
<input type="checkbox"/>	L88	L87 and metadata	33
<input type="checkbox"/>	L87	L86 and link\$3 and (index\$3 near5 data)	154
<input type="checkbox"/>	L86	(sparse and subset\$1 and data and source\$1 and index\$3 and (search\$3 or query\$3) and stor\$3 and analyz\$3) and @py<=2003	395
<input type="checkbox"/>	L85	(file near5 shar\$3) and (file near5 scrubb\$3) and (query near5 option\$1) and (monitor\$3 near5 user\$1) and @py<=2003	0
<input type="checkbox"/>	L84	(automatically near5 determin\$3) same (data near5 source\$1) and (multiple near5 source\$1) and (automatically near5 index\$3) and (automatically near5 monitor\$3) and (automatically near5 analyz\$3) and @py<=2003	0
<input type="checkbox"/>	L83	L82 and (tag\$1 or url\$1)	5
<input type="checkbox"/>	L82	L81 and (automatical\$4 near5 index\$3)	10
<input type="checkbox"/>	L81	L80 and (search\$1 near5 engine\$1)	205
<input type="checkbox"/>	L80	(multiple or plurality) same (data near5 source\$1) and (select\$3 near5 source\$1) and @py<=2003	5340
<input type="checkbox"/>	L79	L78 and ((user\$1 near5 id\$1) same (index\$3 near5 content\$1))	2
<input type="checkbox"/>	L78	(user\$1 near5 history) same (user\$1 adj5 access\$1) and (time or data or timestamp\$3) and @py<=2003	553
<input type="checkbox"/>	L77	L76 and ((query\$3 or search\$3) near5 index\$1)	9
<input type="checkbox"/>	L76	L75 and ((index\$3) near5 (url\$1 or html\$1 or document\$1)) and (user\$1 near5 access\$3)	15
<input type="checkbox"/>	L75	(user adj5 accessed) same (web near5 page\$1) same (time or data or timestamp\$3) and @py<=2003	214
<input type="checkbox"/>	L74	L73 and (index\$3 near5 url\$1)	7
<input type="checkbox"/>	L73	L71 and ((user\$1) same (access\$3 near5 url\$1))	16
<input type="checkbox"/>	L72	L71 and ((query\$3 or search\$3) same (content adj5 index\$1))	1
<input type="checkbox"/>	L71	L70 and ((captur\$3 or monitor\$3) near5 user\$1)	76
<input type="checkbox"/>	L70	L68 and (index\$3 near5 data)	160
<input type="checkbox"/>	L69	L68 and (www or internet) and (filter\$3 near5 utl\$1)	0
<input type="checkbox"/>	L68	(user adj5 accessed) same (time or date or timestamp\$3) and @py<=2003	1659

<input type="checkbox"/>	L67	(index\$3 near5 user\$1) same (user near5 access\$3) and (index\$3 near5 data) and @py<=2003	481
<input type="checkbox"/>	L66	L65 and (www or internet)	16
<input type="checkbox"/>	L65	(user near5 id\$1) and (user near5 access\$3) and (network near5 monitor\$3) and (date or time or timestamp\$3) and (index\$3 near5 content\$1) and @py<=2003	42
<input type="checkbox"/>	L64	(internet or www) same (user accessed) same (time or date or timestamp\$3) and (index\$3 near5 url\$1) and Py<=2003	2
<input type="checkbox"/>	L63	((user near5 access\$3) same ((monitor\$3) near5 (www or internet)) and (index\$3 near5 content\$1)) and @py<=2003	13
<input type="checkbox"/>	L62	(user near5 history) same (user near5 access\$3) and (content near5 index\$3) and (query\$3 near5 index\$1) and @py<=2003	10
<input type="checkbox"/>	L61	L60 and ((query\$3 or search\$3) same (content near5 index\$1))	19
<input type="checkbox"/>	L60	L59 and ((index\$3) same (user near5 profil\$1))	98
<input type="checkbox"/>	L59	L58 and ((filter\$3 or query\$3) same (user near5 profil\$1))	1029
<input type="checkbox"/>	L58	(user\$1 near5 profil\$3) and (user near5 access\$3) and (internet or www) and @py<=2003	6328
<input type="checkbox"/>	L57	L56 and ((search\$3 or query\$3) near5 (index\$1))	0
<input type="checkbox"/>	L56	L55 and ((filter\$3) near5 (data or item\$1 or information))	7
<input type="checkbox"/>	L55	L51 and (user\$1 near5 profil\$1)	31
<input type="checkbox"/>	L54	L51 and (user\$1 naer5 profil\$1)	0
<input type="checkbox"/>	L53	L52 and ((search\$3 or query\$3) near5 (index\$1))	2
<input type="checkbox"/>	L52	L51 and ((index\$3) near5 (url\$1 or web adj page\$1))	7
<input type="checkbox"/>	L51	(web page\$1) same (user\$1 adj5 accessed) same (timestamp\$3 or time or date) and @py<=2002	88
<input type="checkbox"/>	L50	L49 and ((query\$3 or search\$3) same (content near5 index\$1))	5
<input type="checkbox"/>	L49	L48 and (index\$3 near5 data)	62
<input type="checkbox"/>	L48	L47 and ((filter\$3) near5 (content\$1 or item\$1 or information or data))	429
<input type="checkbox"/>	L47	(user near5 access\$3) same (internet or www) same (authentic\$3 or password)	3843
<input type="checkbox"/>	L46	(usr near5 access\$3) same (internet or www) same (authentic\$3 or password)	0
<input type="checkbox"/>	L45	L43 and (user\$1 near5 authenticat\$3)	19
<input type="checkbox"/>	L44	L43 and ((user\$1 near5 access\$3) same (time near5 stamp\$3))	2
<input type="checkbox"/>	L43	L42 and ((query\$3 or search\$3) same (content near5 index\$1))	48
<input type="checkbox"/>	L42	L41 and (filter\$3 near5 content\$1)	81
<input type="checkbox"/>	L41	L33 and (index\$3 near5 content)	584
<input type="checkbox"/>	L40	L39 and (boolean and metadata)	12
<input type="checkbox"/>	L39	L38 and (filter\$3 or search\$3 or query\$3)	164
<input type="checkbox"/>	L38	L37 and (list near5 display\$3)	169
<input type="checkbox"/>	L37	(title\$1 and date and rank and attachment\$1 and email\$)	245
<input type="checkbox"/>	L36	(title\$1 and date and rank and 'mail to' and attachment\$1)	0
<input type="checkbox"/>	L35	(title\$1 and date and rank and 'mail to' and attachment\$1)	0

<input type="checkbox"/>	L34	L33 and (title\$1 and date and rank and 'mail to' and attachment\$1)	0
<input type="checkbox"/>	L33	((search\$3 and engine\$1)and (www or internet) and (determin\$3 near5 access\$3) and (filter\$3 or query\$3) and (web near5 page\$1) or ((web near5 document\$1)) and (index\$3 near5 content\$1)) and @py<=2003	1493
<input type="checkbox"/>	L32	('5778378' '6493718' '6546388' '6605120')!.ABPN1,NRPN,PN,TBAN,WKU.	12
<input type="checkbox"/>	L31	(internet near5 usage) and (index\$3 near5 data) and metadata and @py<=2002	8
<input type="checkbox"/>	L30	L29 and file\$1	28
<input type="checkbox"/>	L29	L28 and index\$3	28
<input type="checkbox"/>	L28	((internet near5 usage) same (analyz\$3))	83
<input type="checkbox"/>	L27	((internet near5 usage) same (analyz\$3)) and file\$1 and folder\$1 and multimedia and email\$1	0
<input type="checkbox"/>	L26	(internet near5 usage) same analyz\$3 and file\$1 and folder\$1 and multimedia and email\$1	0
<input type="checkbox"/>	L25	L24 and multimedia	13
<input type="checkbox"/>	L24	L23 and display\$3	14
<input type="checkbox"/>	L23	L22 and html	14
<input type="checkbox"/>	L22	L21 and url\$1	19
<input type="checkbox"/>	L21	L20 and (search\$3 near5 engine\$1)	28
<input type="checkbox"/>	L20	L18 and index\$3	49
<input type="checkbox"/>	L19	L18 and (folder\$1 near5 index\$3)	0
<input type="checkbox"/>	L18	L17 and ((path or director\$2) near5 (file\$1 or record\$1))	49
<input type="checkbox"/>	L17	L16 and metadata	72
<input type="checkbox"/>	L16	L15 and (index\$3 near5 data)	341
<input type="checkbox"/>	L15	(access\$3 or retriev\$3) near5 (data or record\$1 or file\$1) and (usage near5 analy\$3)	1824
<input type="checkbox"/>	L14	(usage near5 analyzer\$1) and (search\$3 near5 source\$1) and (index\$3 near5 data) and @py<=2002	1
<input type="checkbox"/>	L13	L12 and email\$3	3
<input type="checkbox"/>	L12	L11 and (filter\$3 or query\$3)	11
<input type="checkbox"/>	L11	L10 and display\$3	16
<input type="checkbox"/>	L10	(search\$3 and engine\$1 and index\$3).ti.	82
<input type="checkbox"/>	L9	L8 and index\$3	16
<input type="checkbox"/>	L8	L7 and (usage analysis)	17
<input type="checkbox"/>	L7	L6 and (search\$3 near5 engine\$1)	216
<input type="checkbox"/>	L6	(file\$1 and folder\$1 and internet and usage and analysis) and @py<=2003	710
<input type="checkbox"/>	L5	(file\$1 and foldeer\$1 and internet and usage and analysis) and @py<=2003	0
<input type="checkbox"/>	L4	L3 and (logical or boolean)	6
<input type="checkbox"/>	L3	L2 and visualiz\$3	6
<input type="checkbox"/>	L2	L1 and (user near5 histor\$1)	9
		(file\$1 and folder\$1 and data and (hyperlink or url\$1) and image\$1 and	

☐ L1 appointment\$1 and (emial\$3 or email\$1) and (search\$3 or query\$3) and index\$3
and display\$3 and usage and analys\$3 and (www or internet) and tag\$1 and 22
filter\$3) and @py<=2004

END OF SEARCH HISTORY

RESULT LIST

9 results found in the Worldwide database for:
sparse in the title AND **display** in the title or abstract
(Results are sorted by date of upload in database)

1 SPECTRAL VELOCITY ESTIMATION USING AUTOCORRELATION FUNCTIONS FOR SPARSE DATA SETS

Inventor: JENSEN JOERGEN ARENDT (DK)

Applicant: DANMARKS TEKNISKE UNI (DK); JENSEN JOERGEN ARENDT (DK)

EC: G01S15/89D7; G01S15/58E

IPC: **A61B8/06; G01S15/58; G01S15/89** (+5)

Publication info: **WO2006002625** - 2006-01-12

2 Sparse refresh of display

Inventor: WILLIS THOMAS E (US); MIDFORD STEVEN L Applicant: INTEL CORP (US)

EC: G06F12/10L; G09G5/36

IPC: **G06F12/10; G09G5/36; G06F12/10** (+3)

Publication info: **US2005195208** - 2005-09-08

3 METHOD AND DEVICE FOR EVALUATION OF FINANCIAL DERIVATIVES USING SPARSE GRIDS

Inventor: WAHL SEBASTIAN (DE); GERSTNER THOMAS (DE); (+1)

Applicant: WAHL SEBASTIAN (DE); GERSTNER THOMAS (DE); (+1)

EC: G06Q40/00B

IPC: **G06F17/10; G06F17/10**; (IPC1-7): G06F17/10 (+1)

Publication info: **CA2364920** - 2002-06-13

4 Sparse refresh of display

Inventor: WILLIS THOMAS E (US); MIDFORD STEVEN L Applicant: INTEL CORP (US)

EC: G09G5/395

IPC: **G09G5/395; G09G5/36**; (IPC1-7): G09G5/36

Publication info: **US2003107579** - 2003-06-12

5 SPARSE FREQUENCY WAVEFORM RADAR SYSTEM AND METHOD

Inventor: SMALL JAMES G (US)

Applicant:

EC: G01S7/28; G01S7/36; (+2)

IPC: **G01S7/28; G01S7/36; G01S13/10** (+6)

Publication info: **US2002154054** - 2002-10-24

6 Sparse vector rasterization

Inventor: SULLIVAN STEVEN K (US); DOBYNS KENNETH P (US); (+3)

Applicant: TEKTRONIX INC (US)

EC: G01R13/34C

IPC: **G01R13/34; G01R13/22**; (IPC1-7): G01R13/02

Publication info: **TW440694B** - 2001-06-16

7 Altitude sparse aircraft display

Inventor: TOGNAZZINI BRUCE (US)

Applicant: SUN MICROSYSTEMS INC (US)

EC: G08G5/04

IPC: **G08G5/04; G08G5/00**; (IPC1-7): G08G5/04

Publication info: **US6076042** - 2000-06-13

8 Altitude sparse aircraft display

Inventor: TOGNAZZINI BRUCE (US)

Applicant: SUN MICROSYSTEMS INC (US)

EC: G08G5/04

IPC: **G08G5/04; G08G5/00**; (IPC1-7): G08G5/04

Publication info: **US5884223** - 1999-03-16

9 ARITHMETIC PROCESSING SYSTEM FOR SPARSE MATRIX

Inventor: KAGE TETSUO; OOISHI YUUKO

Applicant: FUJITSU LTD

EC: G06F17/16

IPC: **G06F17/16; G06F17/16**; (IPC1-7): G06F15/347

Publication info: **JP60247782** - 1985-12-07

Data supplied from the **esp@cenet** database - Worldwide

RESULT LIST

Approximately **115** results found in the Worldwide database for:
sparse in the title AND **data** in the title or abstract
 (Results are sorted by date of upload in database)

- 1 SPARSE CACHING FOR STREAMING MEDIA.**
 Inventor: THALES PAULO DE CARVALHO (US) Applicant: MICROSOFT CORP (US)
 EC: IPC: **G06F3/00; G06F12/02; G06F13/00** (+9)
 Publication info: **MXPA04006412** - 2005-04-25
- 2 SPECTRAL VELOCITY ESTIMATION USING AUTOCORRELATION FUNCTIONS FOR SPARSE DATA SETS**
 Inventor: JENSEN JOERGEN ARENDT (DK) Applicant: DANMARKS TEKNISKE UNI (DK); JENSEN JOERGEN ARENDT (DK)
 EC: G01S15/89D7; G01S15/58E IPC: **A61B8/06; G01S15/58; G01S15/89** (+5)
 Publication info: **WO2006002625** - 2006-01-12
- 3 Motion estimation process and system using sparse search block-matching and integral protection**
 Inventor: CHANG CHING-FANG (US); YANAGIHARA NAOFUMI (JP) Applicant: SONY ELECTRONICS INC (JP)
 EC: G06T7/20B; H04N5/14M2; (+2) IPC: **G06T7/20; H04N5/14; H04N7/26** (+5)
 Publication info: **US6996176** - 2006-02-07
- 4 PERCEPTUAL SUBBAND AUDIO CODING USING ADAPTIVE MULTITYPE SPARSE VECTOR QUANTIZATION, AND SIGNAL SATURATION SCALER**
 Inventor: MANTEGNA JOHN (US); WU SHUWU (US) Applicant: AMERICA ONLINE INC (US)
 EC: IPC: (IPC1-7): G10L21/04; G10L21/02
 Publication info: **CA2523773** - 1999-05-06
- 5 Detection of randomness in sparse data set of three dimensional time series distributions**
 Inventor: O'BRIEN JR FRANCIS J (US) Applicant: US NAVY (US)
 EC: IPC: (IPC1-7): G06F17/00
 Publication info: **US6980926** - 2005-12-27
- 6 Sparse refresh of display**
 Inventor: WILLIS THOMAS E (US); MIDFORD STEVEN L Applicant: INTEL CORP (US)
 EC: G06F12/10L; G09G5/36 IPC: **G06F12/10; G09G5/36; G06F12/10** (+3)
 Publication info: **US2005195208** - 2005-09-08
- 7 A SYSTEM AND METHOD FOR A SPARSE KERNEL EXPANSION FOR A BAYES CLASSIFIER**
 Inventor: DUNDAR MURAT (US); FUNG GLENN (US); (+2) Applicant: SIEMENS MEDICAL SOLUTIONS (US); DUNDAR MURAT (US); (+3)
 EC: IPC: **G06K9/62; G06K9/62; (IPC1-7): G06K9/62**
 Publication info: **WO2005078638** - 2005-08-25
- 8 Multi-resolution image data management system and method based on tiled wavelet-like transform and sparse data coding**
 Inventor: CHUI CHARLES K (US); GAO HONG-YE (US); Applicant: ZORAN CORP (US) (+1)
 EC: G06F3/033A1; G06T3/40; (+6) IPC: **G06F3/033; G06T3/40; G06T9/00** (+6)
 Publication info: **US2005053301** - 2005-03-10
- 9 Method and apparatus for populating sparse matrix entries from corresponding data**
 Inventor: PRAIRIE EDEN; ROGER JAMES P Applicant: PLATINUM TECHNOLOGY INC
 EC: IPC: **G06F17/30; G06F17/30; (IPC1-7): G06F17/30**

RESULT LIST

1 result found in the Worldwide database for:

sparse in the title AND **subsets** in the title or abstract

(Results are sorted by date of upload in database)

1 Shifting sampling window and interleaves sparse K-space data acquisition for improved temporal resolution

Inventor: LIU KECHENG (US); PALMER NEIL (US);

Applicant: KONINKL PHILIPS ELECTRONICS NV (NL)

(+1)

EC: G01R33/56

IPC: **G01R33/56**; G01R33/36; **G01R33/54** (+2)

Publication info: **US6434413** - 2002-08-13

Data supplied from the *esp@cenet* database - Worldwide

Publication info: **AU2004203851** - 2004-09-09

10 Method and apparatus for producing digital orthophotos using sparse stereo configurations and external models

Inventor: KNOPP DAVID E (US)

Applicant:

EC: G01C11/06

IPC: **G01C11/06**; **G01C11/00**; (IPC1-7): G06K9/00

Publication info: **US2005031197** - 2005-02-10

Data supplied from the **esp@cenet** database - Worldwide

RESULT LIST

1 result found in the Worldwide database for:

sparse in the title AND **analyzing** in the title or abstract

(Results are sorted by date of upload in database)

1 A SYSTEM AND METHOD FOR A SPARSE KERNEL EXPANSION FOR A BAYES CLASSIFIER

Inventor: DUNDAR MURAT (US); FUNG GLENN (US);
(+2)

Applicant: SIEMENS MEDICAL SOLUTIONS (US);
DUNDAR MURAT (US); (+3)

EC:

IPC: **G06K9/62; G06K9/62**; (IPC1-7): G06K9/62

Publication info: **WO2005078638** - 2005-08-25

Data supplied from the **esp@cenet** database - Worldwide

RESULT LIST

3 results found in the Worldwide database for:
sparse in the title AND **indexing** in the title or abstract
(Results are sorted by date of upload in database)

1 Process and system for sparse vector and matrix representation of document indexing and retrieval

Inventor: COADY ARIC (US)

Applicant:

EC:

IPC: **G06F7/00; G06F17/00; G06F7/00** (+2)

Publication info: **US2004205063** - 2004-10-14

2 Process and system for sparse vector and matrix representation of document indexing and retrieval

Inventor: COADY ARIC (US)

Applicant:

EC:

IPC: **G06F7/00; G06F17/00; G06F7/00** (+2)

Publication info: **US2002091715** - 2002-07-11

3 Method and apparatus for indexing patterned sparse arrays for microprocessor data cache

Inventor: DOOLING DARIA ROSE (US); MULLIN LENOREApplicant: IBM (US)

MARIE RESTIFO (US); (+1)


EC: G06F12/02B

IPC: **G06F12/02; G06F12/02**; (IPC1-7): G06F17/30

Publication info: **US5878424** - 1999-03-02

Data supplied from the **esp@cenet** database - Worldwide

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WebResults 1 - 10 of about **50,600,000** for **concurrent search**. (0.19 seconds)**Citations: Concurrent search structure algorithms - Shasha ...**

D. Shasha and N. Goodman. **Concurrent search** structure algorithms. ACM Transactions on Database Systems, 13(1):53–90, March 1988.

citeseer.ist.psu.edu/context/12021/0 - 35k - [Cached](#) - [Similar pages](#)

Citations: Concurrent search and insertion in 2-3 trees - Ellis ...

CS Ellis. **Concurrent search** and insertion in 2-3 trees. Acta Informatica, 14:63–86, 1980.

citeseer.ist.psu.edu/context/86713/0 - 26k - [Cached](#) - [Similar pages](#)

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How many concurrent search requests (queries) does Alkaline support?

Alkaline has no internal limit to the amount of **concurrent search** queries. However, if the server is very busy, Alkaline will keep requests pending and will ...

alkaline.vestris.com/docs/alkaline-faq/af-tech-concur.html - 5k - [Cached](#) - [Similar pages](#)

[PPT] Designing Concurrent Search Structure Algorithms

File Format: Microsoft Powerpoint 97 - [View as HTML](#)

Designing **Concurrent Search** Structure Algorithms. Dennis Shasha. What is a **Search** Structure? Data structure (typically aB tree, hash structure, R-tree, etc. ...

www.cs.nyu.edu/courses/fall05/G22.2434-001/concsearchstruct.ppt - [Similar pages](#)

[PDF] Concurrent Search of Mobile Users in Cellular Networks

File Format: PDF/Adobe Acrobat - [View as HTML](#)

all the cells of the network, the **concurrent search** approach is able to reduce ... presents the mathematical formulation of the **concurrent search** problem. ...

people.ece.cornell.edu/haas/wnl/Publications/tn17.pdf - [Similar pages](#)

Search Pilot Program - OG Date: 25 May 1999

Notice to the Public Regarding the 1999 **Concurrent Search** Pilot Program The United States Patent and Trademark Office (USPTO), the European Patent Office ...

www.uspto.gov/go/og/1999/week21/patprog.htm - 9k - [Cached](#) - [Similar pages](#)

Philip Gwyn / Tie-Concurrent - search.cpan.org

All, Modules, Distributions, Authors. Philip Gwyn > Tie-Concurrent ... Tie::Concurrent, Paranoid tie for **concurrent** access, 0.04 ...

search.cpan.org/dist/Tie-Concurrent/ - 5k - [Cached](#) - [Similar pages](#)

Concurrent search of mobile users in cellular networks

The **concurrent search** approach guarantees that all k mobile users will be located within k time slots. It is shown that even in the worst case when mobile ...

portal.acm.org/citation.cfm?id=973492.973502 - [Similar pages](#)

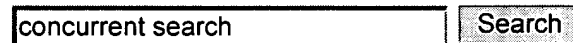
ACM Trans. Database Syst. 6(4): 650-670(1981)

Efficient Locking for **Concurrent** Operations on B-Trees. ... [6]: Carla Schlatter Ellis: **Concurrent Search** and Insertion in 2-3 Trees. ...

www.informatik.uni-trier.de/~ley/db/journals/tods/LehmanY81.html - 34k - [Cached](#) - [Similar pages](#)

Notice to the Public Regarding Termination of the 1999 Concurrent ...


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<http://www.google.com/search?hl=en&q=concurrent+search>

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[Advanced Search](#)
[Preferences](#)

WebResults 21 - 30 of about 50,600,000 for **concurrent search**. (0.10 seconds)**The Website of the Trilateral Co-operation :: Projects**

Report on **Concurrent Search** Pilot Program (Paris-route) Carried Out under Trilateral Project B3a. Report (PDF 142KB). Last modified: February 22 2006 ...
www.trilateral.net/projects/other_project/paris_route/ - 7k - [Cached](#) - [Similar pages](#)
[\[More results from www.trilateral.net \]](#)

[PDF] Concurrent Search and Insertion in K-Dimensional Height Balanced ...File Format: PDF/Adobe Acrobat - [View as HTML](#)

Concurrent Search and Insertion in K-Dimensional. Height Balanced Trees. Andrei Zaharescu. York University, Department of Computer Science ...
www.andrei-online.ca/andrei/my_research/kbalanced_trees.pdf - [Similar pages](#)

[PDF] Concurrent Search of Mobile Users in Cellular Networks

File Format: PDF/Adobe Acrobat

concurrent search approach guarantees that all mobile users will ... paging cost due to the usage of the **concurrent search** approach. ranges from 25% to 88%. ...
[dx.doi.org/10.1109/TNET.2003.822662](https://doi.org/10.1109/TNET.2003.822662) - [Similar pages](#)

Concurrent::ErrorHandler - Error handling mechanism for Concurrent ...

Concurrent::ErrorHandler encapsulates the error handling mechanism used by the ...
Concurrent::ErrorHandler doesn't have a constructor and is meant to be ...
search.cpan.org/~vipul/Concurrent-Object-1.07/lib/Concurrent/ErrorHandler.pm - 6k - [Cached](#) - [Similar pages](#)
[\[More results from search.cpan.org \]](#)

[#CONF-4718] Test concurrent search performance - Atlassian JIRA

This could impact **search** performance on **concurrent** searches. Refer to this thread:
<http://thread.gmane.org/gmane.comp.jakarta.lucene.user/12150> ...
jira.atlassian.com/browse/CONF-4718 - 21k - [Cached](#) - [Similar pages](#)

Concurrent Search Program

The following program is intended to **search** the positive integers and negative integers in parallel until a zero is found. S is [S1||S2] where ...
www.math.tau.ac.il/~nachumd/verify/concurrent-search.html - 2k - [Cached](#) - [Similar pages](#)

Concurrent Search Program

PROGRAM VERIFICATION. Homework #2: Shared Find. Fill in a proof outline (repairing the program, if necessary) that shows that this program finds the ...
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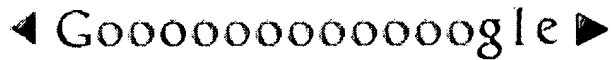
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DBPL-8, 2001: Frascati, Italy

Lecture Notes in Computer Science 2397 Springer **2002**, ISBN 3-540-44080-1 BibTeX ... A
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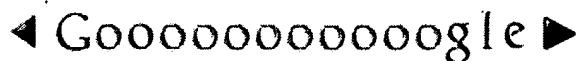
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Research Report RJ 10147 (95022), IBM Almaden Research Center, July 8, ...

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that may be beneficial in cases of **sparse** training **data**. ... (2002) also report lower TREC performance compared to Web performance. A number of ...

research.microsoft.com/~sdumais/ Trec2001Notebook.Feb2002Final.pdf - [Similar pages](#)



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1 [Register allocation across procedure and module boundaries](#)



Vatsa Santhanam, Daryl Odnert

 June 1990 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1990 conference on Programming language design and implementation PLDI '90**, Volume 25
Issue 6

Publisher: ACM Press

Full text available: pdf(1.51 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes a method for compiling programs using interprocedural register allocation. A strategy for handling programs built from multiple modules is presented, as well as algorithms for global variable promotion and register spill code motion. These algorithms attempt to address some of the shortcomings of previous interprocedural register allocation strategies. Results are given for an implementation on a single register file RISC-based architec ...

2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

3 [Symbolic analysis of large analog circuits with determinant decision diagrams](#)

C.-J. Richard Shi, Xiangdong Tan

 November 1997 **Proceedings of the 1997 IEEE/ACM international conference on Computer-aided design**

Publisher: IEEE Computer Society

Full text available: pdf(335.84 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

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Symbolic analog-circuit analysis has many applications, and is especially useful for analog

synthesis and testability analysis. In this paper, we present a new approach to exact and canonical symbolic analysis by exploiting the sparsity and sharing of product terms. It consists of representing the symbolic determinant of a circuit matrix by a graph---called determinant decision diagram (DDD)---and performing symbolic analysis by graph manipulations. We showed that DDD construction and DDD-based ...

4 The GTPN analyzer: numerical methods and user interface

Mark A. Holliday, Mary K. Vernon

November 1986 **Proceedings of 1986 ACM Fall joint computer conference**


Publisher: IEEE Computer Society Press

Full text available:  [pdf\(801.02 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Proceedings of the SIGNUM conference on the programming environment for development of numerical software

March 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue 1

Publisher: ACM Press


Full text available:  [pdf\(5.02 MB\)](#) Additional Information: [full citation](#)

6 The state of the art in automating usability evaluation of user interfaces

Melody Y. Ivory, Marti A Hearst

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(2.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Usability evaluation is an increasingly important part of the user interface design process. However, usability evaluation can be expensive in terms of time and human resources, and automation is therefore a promising way to augment existing approaches. This article presents an extensive survey of usability evaluation methods, organized according to a new taxonomy that emphasizes the role of automation. The survey analyzes existing techniques, identifies which aspects of usability evaluation aut ...

Keywords: Graphical user interfaces, taxonomy, usability evaluation automation, web interfaces

7 Efficient descriptor-vector multiplications in stochastic automata networks

Paulo Fernandes, Brigitte Plateau, William J. Stewart

May 1998 **Journal of the ACM (JACM)**, Volume 45 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(275.57 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper examines numerical issues in computing solutions to networks of stochastic automata. It is well-known that when the matrices that represent the automata contain only constant values, the cost of performing the operation basic to all iterative solution methods, that of matrix-vector multiply, is given by $rN=i=1$

N

$n \times i=1$

N

ni

Keywords: Markov chains, generalized tensor algebra, stochastic automata networks, vector-descriptor multiplication

8 Design and implementation of a diagnostic compiler for PL/I



Richard W. Conway, Thomas R. Wilcox

March 1973 **Communications of the ACM**, Volume 16 Issue 3

Publisher: ACM Press

Full text available: pdf(1.13 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

PL/C is a compiler for a dialect for PL/I. The design objective was to provide a maximum degree of diagnostic assistance in a batch processing environment. For the most part this assistance is implicit and is provided automatically by the compiler. The most remarkable characteristic of PL/C is its perseverance—it completes translation of every program submitted and continues execution until a user-established error limit is reached. This requires that the compiler repair errors encountered ...

Keywords: PL/I, compilers, debugging, programming languages

9 Technical reports



SIGACT News Staff

January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: [full citation](#)

10 Special issue on knowledge representation



Ronald J. Brachman, Brian C. Smith

February 1980 **ACM SIGART Bulletin**, Issue 70

Publisher: ACM Press

Full text available: pdf(13.13 MB) Additional Information: [full citation](#), [abstract](#)

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were two useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Second ...

11 SUIF Explorer: an interactive and interprocedural parallelizer



Shih-Wei Liao, Amer Diwan, Robert P. Bosch, Anwar Ghuloum, Monica S. Lam

May 1999 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN symposium on Principles and practice of parallel programming PPOPP '99**, Volume 34 Issue 8

Publisher: ACM Press

Full text available: pdf(1.81 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The SUIF Explorer is an interactive parallelization tool that is more effective than previous systems in minimizing the number of lines of code that require programmer assistance. First, the interprocedural analyses in the SUIF system is successful in parallelizing many coarse-grain loops, thus minimizing the number of spurious dependences requiring attention. Second, the system uses dynamic execution analyzers to identify those important loops that are likely to be parallelizable. Third, the SU ...

12 Shade: a fast instruction-set simulator for execution profiling



Bob Cmelik, David Keppel

May 1994 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1994 ACM SIGMETRICS conference on Measurement and modeling of computer systems SIGMETRICS '94**, Volume 22 Issue 1

Publisher: ACM Press

Full text available: pdf(1.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tracing tools are used widely to help analyze, design, and tune both hardware and software systems. This paper describes a tool called Shade which combines efficient instruction-set simulation with a flexible, extensible trace generation capability. Efficiency is achieved by dynamically compiling and caching code to simulate and trace the application program. The user may control the extent of tracing in a variety of ways; arbitrarily detailed application state information may be collected ...

13 Debugging concurrent programs



Charles E. McDowell, David P. Helmbold

December 1989 **ACM Computing Surveys (CSUR)**, Volume 21 Issue 4

Publisher: ACM Press

Full text available: pdf(2.86 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The main problems associated with debugging concurrent programs are increased complexity, the "probe effect," nonrepeatability, and the lack of a synchronized global clock. The probe effect refers to the fact that any attempt to observe the behavior of a distributed system may change the behavior of that system. For some parallel programs, different executions with the same data will result in different results even without any attempt to observe the behavior. Even when the behavior can be ...

14 Application of axiomatic methods to a specification analyser

Susan L. Gerhart

March 1984 **Proceedings of the 7th international conference on Software engineering**

Publisher: IEEE Press

Full text available: pdf(839.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The goal of this paper was to model a specification language and its analyser using axiomatic methods derived from those applied previously to abstract data type and state transition specifications. The models attempt to cover many interesting features of PSL/PSA, a widely used specification language and analyser for information systems. Simple properties expected to hold for actual PSL/PSA were formalized and proved about some models, with assumptions about undefined parts. Both model form ...

15 Large-scale circuit placement



Jason Cong, Joseph R. Shinnerl, Min Xie, Tim Kong, Xin Yuan

April 2005 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 10 Issue 2

Publisher: ACM Press

Full text available: pdf(428.15 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Placement is one of the most important steps in the RTL-to-GDSII synthesis process, as it directly defines the interconnects, which have become the bottleneck in circuit and system performance in deep submicron technologies. The placement problem has been studied extensively in the past 30 years. However, recent studies show that existing placement solutions are surprisingly far from optimal. The first part of this tutorial summarizes

results from recent optimality and scalability studies of exi ...

Keywords: Placement, large-scale optimization, optimality, scalability

16 Recent technical reports



December 1979 **ACM SIGACT News**, Volume 10 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.99 MB\)](#) Additional Information: [full citation](#)



17 Compiling nested data-parallel programs for shared-memory multiprocessors



Siddhartha Chatterjee

July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 15 Issue 3

Publisher: ACM Press

Full text available: [pdf\(4.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#),
[review](#)



Keywords: compilers, data parallelism, shared-memory multiprocessors

18 Special issue: AI in engineering



D. Sriram, R. Joobhani

April 1985 **ACM SIGART Bulletin**, Issue 92

Publisher: ACM Press

Full text available: [pdf\(8.79 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.



19 Technique for automatically correcting words in text



Karen Kukich

December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

Publisher: ACM Press

Full text available: [pdf\(6.23 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent word correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling correction ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction



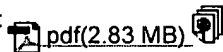
Translating collocations for bilingual lexicons: a statistical approach

Frank Smadja, Kathleen R. McKeown, Vasileios Hatzivassiloglou

March 1996 **Computational Linguistics**, Volume 22 Issue 1

Publisher: MIT Press

Full text available:



Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

[Publisher Site](#)

Collocations are notoriously difficult for non-native speakers to translate, primarily because they are opaque and cannot be translated on a word-by-word basis. We describe a program named Champollion which, given a pair of parallel corpora in two different languages and a list of collocations in one of them, automatically produces their translations. Our goal is to provide a tool for compiling bilingual lexical information above the word level in multiple languages, for different domains. The a ...

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1 [Generating highly-routable sparse crossbars for PLDs](#)



Guy Lemieux, Paul Leventis, David Lewis

 February 2000 **Proceedings of the 2000 ACM/SIGDA eighth international symposium on Field programmable gate arrays**

Publisher: ACM Press

Full text available: pdf(952.31 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A method for evaluating and constructing sparse crossbars which are both area efficient and highly routable is presented. The evaluation method uses a network flow algorithm to accurately compute the percentage of random test vectors that can be routed. The construction method attempts to maximize the spread of the switch locations, such that any given subset of input wires can connect to as many output wires as possible. Based on Hall's Theorem, we argue that this increases the likelihood ...

2 [Special issue on special feature: Dimensionality reduction via sparse support vector machines](#)

Jinbo Bi, Kristin Bennett, Mark Embrechts, Curt Breneman, Minghu Song

 March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(243.71 KB)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We describe a methodology for performing variable ranking and selection using support vector machines (SVMs). The method constructs a series of sparse linear SVMs to generate linear models that can generalize well, and uses a subset of nonzero weighted variables found by the linear models to produce a final nonlinear model. The method exploits the fact that a linear SVM (no kernels) with l_1 -norm regularization inherently performs variable selection as a side-effect of minimizin ...

3 [Special issue on ICML: Some greedy learning algorithms for sparse regression and classification with mercer kernels](#)

Prasanth B. Nair, Arindam Choudhury, Andy J. Keane

 March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(165.16 KB)

 Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present greedy learning algorithms for building sparse nonlinear regression and classification models from observational data using Mercer kernels. Our objective is to

develop efficient numerical schemes for reducing the training and runtime complexities of kernel-based algorithms applied to large datasets. In the spirit of Natarajan's greedy algorithm (Natarajan, 1995), we iteratively minimize the L_2 loss function subject to a specified constraint on the degree of sparsity ...

4 Bottom-up computation of sparse and Iceberg CUBE



Kevin Beyer, Raghu Ramakrishnan

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99**, Volume 28 Issue 2

Publisher: ACM Press

Full text available: pdf(1.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce the Iceberg-CUBE problem as a reformulation of the datacube (CUBE) problem. The Iceberg-CUBE problem is to compute only those group-by partitions with an aggregate value (e.g., count) above some minimum support threshold. The result of Iceberg-CUBE can be used (1) to answer group-by queries with a clause such as HAVING COUNT(*) >= X, where X is greater than the threshold, (2) for mining multidimensional association rules, and (3) to complement existing strategies for identifying ...

5 Special issue on independent components analysis: A multiscale framework for blind separation of linearly mixed signals

Pavel Kisilev, Michael Zibulevsky, Yehoshua Y. Zeevi

December 2003 **The Journal of Machine Learning Research**, Volume 4

Publisher: MIT Press

Full text available: pdf(781.15 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We consider the problem of blind separation of unknown source signals or images from a given set of their linear mixtures. It was discovered recently that exploiting the sparsity of sources and their mixtures, once they are projected onto a proper space of sparse representation, improves the quality of separation. In this study we take advantage of the properties of multiscale transforms, such as wavelet packets, to decompose signals into sets of local features with various degrees of sparsity. ...

6 The existence and density of generalized complexity cores



Ronald V. Book, Ding-Zhu Du

July 1987 **Journal of the ACM (JACM)**, Volume 34 Issue 3

Publisher: ACM Press

Full text available: pdf(1.09 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

If C is a class of sets and A is not in C , then an infinite set H is a proper hard core for A with respect to C , if $H \subseteq A$ and for every $C \in C$ such that $C \subseteq A$, $C \cap H$ is finite. It is shown that if C is a countable class of sets of strings t ...

7 Session 26: linear algebra II: Improved load distribution in parallel sparse cholesky factorization



Edward Rothberg, Robert Schreiber

November 1994 **Proceedings of the 1994 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(1.02 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Compared to the customary column-oriented approaches, block-oriented, distributed-memory sparse Cholesky factorization benefits from an asymptotic reduction in interprocessor communication volume and an asymptotic increase in the amount of concurrency that is exposed in the problem. Unfortunately, block-oriented approaches

(specifically, the block fan-out method) have suffered from poor balance of the computational load. As a result, achieved performance can be quite low. This paper investigates ...

8 Sparse sets in NP-P: Exptime versus nexptime



J. Hartmanis, V. Sewelson, N. Immerman

December 1983 **Proceedings of the fifteenth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: [pdf\(774.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper investigates the structural properties of sets in NP-P and shows that the computational difficulty of lower density sets in NP depends explicitly on the relations between higher deterministic and nondeterministic time-bounded complexity classes. The paper exploits the recently discovered upward separation method, which shows for example that there exist sparse sets in NP-P if and only if EXPTIME @@@@ NEXPT ...

9 On Reducibility to Complex or Sparse Sets



Nancy Lynch

July 1975 **Journal of the ACM (JACM)**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: [pdf\(330.30 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Anonymous authentication with subset queries (extended abstract)



Dan Boneh, Matt Franklin

November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: [pdf\(613.93 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We develop new schemes for anonymous authentication that support identity escrow. Our protocols also allow a prover to demonstrate membership in an arbitrary subset of users; key revocation is an important special case of this feature. Using the Fiat-Shamir heuristic, our interactive authentication protocols yield new constructions for non-interactive group signature schemes. We use the higher-residuosity assumption, which leads to greater efficiency and more natural security proofs than pr ...

Keywords: anonymous authentication, group signature, identity escrow

11 Sparse matrix test problems



I. S. Duff, Roger G. Grimes, John G. Lewis

March 1989 **ACM Transactions on Mathematical Software (TOMS)**, Volume 15 Issue 1

Publisher: ACM Press

Full text available: [pdf\(961.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We describe the Harwell-Boeing sparse matrix collection, a set of standard test matrices for sparse matrix problems. Our test set comprises problems in linear systems, least squares, and eigenvalue calculations from a wide variety of scientific and engineering disciplines. The problems range from small matrices, used as counter-examples to hypotheses in sparse matrix research, to large test cases arising in large-scale

computation. We offer the collection to other researchers as a standard ...

12 Session 9B: Verifying candidate matches in sparse and wildcard matching



Richard Cole, Ramesh Hariharan

May 2002 **Proceedings of the thirty-fourth annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available: [pdf\(255.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

(MATH) This paper obtains the following results on pattern matching problems in which the text has length n and the pattern has length m

- An $O(n \log m)$ time deterministic algorithm for the String Matching with Wildcards problems, even when the alphabet is large.
- An $O(k \log^2 m)$ time Las Vegas algorithm for the Sparse String Matching with Wildcards problem, where $k \ll n$ is the number of non-zeros in the ...

13 Array language support for parallel sparse computation



Bradford L. Chamberlain, Lawrence Snyder

June 2001 **Proceedings of the 15th international conference on Supercomputing**

Publisher: ACM Press

Full text available: [pdf\(312.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an array-based language-level approach to parallel sparse computation. Our approach is unique due to its separation of sparse index sets from arrays, both syntactically and in the implementation. This design allows users to express their computation using dense array syntax, making the code easier for readers to understand and for compilers to parallelize and optimize. This work is done within the context of Advanced ZPL, retaining its crisp syntax and source-level perfor ...

Keywords: Advanced ZPL, MPI, NAS parallel benchmarks, parallel computing, parallel language, sparse array, sparse matrix

14 Session 5A: All maximal independent sets and dynamic dominance for sparse graphs

David Eppstein

January 2005 **Proceedings of the sixteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available: [pdf\(805.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We describe algorithms, based on Avis and Fukuda's reverse search paradigm, for listing all maximal independent sets in a sparse graph in polynomial time and delay per output. For bounded degree graphs, our algorithms take constant time per set generated; for minor-closed graph families, the time is $O(n)$ per set, and for more general sparse graph families we achieve subquadratic time per set. We also describe new data structures for maintaining a dynamic vertex set S in a sp ...

15 Sparse code motion



Oliver Rüthing, Jens Knoop, Bernhard Steffen

January 2000 **Proceedings of the 27th ACM SIGPLAN-SIGACT symposium on Principles of programming languages**


Publisher: ACM Press

Full text available: [pdf\(1.67 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this article, we add a third dimension to partial redundancy elimination by considering code size as a further optimization goal in addition to the more classical consideration of computation costs and register pressure. This results in a family of sparse code motion algorithms coming as modular extensions of the algorithms for busy and lazy code motion. Each of them optimally captures a predefined choice of priority bet ...

Keywords: busy code motion, code motion, code size, computational optimality, embedded processors and systems, expression motion, lazy code motion, life-time optimality, partial redundancy elimination, space optimality

16 Level set and PDE methods for computer graphics

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press


Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

17 The isomorphism conjecture fails relative to a random oracle

 Stuart A. Kurtz, Stephen R. Mahaney, James S. Royer
March 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 2

Publisher: ACM Press

Full text available:  [pdf\(1.38 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#), [review](#)

Keywords: conjecture, isomorphism, randomness

18 Learning sparse multivariate polynomials over a field with queries and counterexamples

 Robert E. Schapire, Linda M. Sellie
August 1993 **Proceedings of the sixth annual conference on Computational learning theory**

Publisher: ACM Press

Full text available:  [pdf\(1.13 MB\)](#) Additional Information: [full citation](#), [references](#), [citings](#), [index terms](#)

19 Sparse bayesian learning and the relevance vector machine

Michael E. Tipping
September 2001 **The Journal of Machine Learning Research**, Volume 1

Publisher: MIT Press

Full text available:  [pdf\(999.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citings](#)

This paper introduces a general Bayesian framework for obtaining sparse solutions to regression and classification tasks utilising models linear in the parameters. Although this framework is fully general, we illustrate our approach with a particular specialisation that

we denote the 'relevance vector machine' (RVM), a model of identical functional form to the popular and state-of-the-art 'support vector machine' (SVM). We demonstrate that by exploiting a probabilistic Bayesian learning framework ...

20 Sparsification—a technique for speeding up dynamic graph algorithms



David Eppstein, Zvi Galil, Giuseppe F. Italiano, Amnon Nissenzweig
September 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 5

Publisher: ACM Press

Full text available: pdf(160.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We provide data structures that maintain a graph as edges are inserted and deleted, and keep track of the following properties with the following times: minimum spanning forests, graph connectivity, graph 2-edge connectivity, and bipartiteness in time $O(n^{1/2})$ per change; 3-edge connectivity, in time $O(n^{2/3})$ per change; 4-edge connectivity, in time $O(n \dots)$

Keywords: dynamic graph algorithms, edge and vertex connectivity, minimum spanning trees

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 Terms used sparse subsets index

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1 [Physical database design: Applying approximate order dependency to reduce indexing space](#)



Jirun Dong, Richard Hull

 June 1982 **Proceedings of the 1982 ACM SIGMOD international conference on Management of data SIGMOD '82**

Publisher: ACM Press

 Full text available: [pdf\(1.22 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The recently introduced notion of order dependency in the relational model is generalized to include situations where order dependency is satisfied in an approximate way. Two fundamental types of approximate satisfaction are distinguished and analyzed. It is shown for both types that such approximate satisfaction of order dependencies can be applied to substantially reduce indexing space without significantly increasing access time.

2 [Monomial bases and polynomial system solving \(extended abstract\)](#)



Ioannis Z. Emiris, Ashutosh Rege

 August 1994 **Proceedings of the international symposium on Symbolic and algebraic computation**

Publisher: ACM Press

 Full text available: [pdf\(918.96 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper addresses the problem of efficient construction of monomial bases for the coordinate rings of zero-dimensional varieties.

3 [Compile-time composition of run-time data and iteration reorderings](#)



Michelle Mills Strout, Larry Carter, Jeanne Ferrante

 May 2003 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation PLDI '03**, Volume 38 Issue 5

Publisher: ACM Press

 Full text available: [pdf\(208.69 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Many important applications, such as those using sparse data structures, have memory reference patterns that are unknown at compile-time. Prior work has developed run-time reorderings of data and computation that enhance locality in such applications. This paper presents a compile-time framework that allows the explicit composition of run-time data and iteration-reordering transformations. Our framework builds on the iteration-

reordering framework of Kelly and Pugh to represent the effects of a g ...

Keywords: data remapping, inspector/executor, iteration reordering, optimization, run-time transformations, sparse tiling

4 A subdivision-based algorithm for the sparse resultant



John F. Canny, Ioannis Z. Emiris

May 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 3

Publisher: ACM Press

Full text available: pdf(2.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Multivariate resultants generalize the Sylvester resultant of two polynomials and characterize the solvability of a polynomial system. They also reduce the computation of all common roots to a problem in linear algebra. We propose a determinantal formula for the sparse resultant of an arbitrary system of $n + 1$ polynomials in n variables. This resultant generalizes the classical one and has significantly lower degree for polynomials that are sparse in the se ...

Keywords: Newton polytope, asymptotic complexity, effective Nullstellensatz, mixed volume, multivariate resultant, polyhedral subdivision, sparse elimination theory

5 An Automatic Technique for Selection of Data Representations in SETL Programs



Edmond Schonberg, Jacob T. Schwartz, Micha Sharir

April 1981 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 3 Issue 2

Publisher: ACM Press

Full text available: pdf(1.22 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 Anonymous authentication with subset queries (extended abstract)



Dan Boneh, Matt Franklin

November 1999 **Proceedings of the 6th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available: pdf(613.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We develop new schemes for anonymous authentication that support identity escrow. Our protocols also allow a prover to demonstrate membership in an arbitrary subset of users; key revocation is an important special case of this feature. Using the Fiat-Shamir heuristic, our interactive authentication protocols yield new constructions for non-interactive group signature schemes. We use the higher-residuosity assumption, which leads to greater efficiency and more natural security proofs than pr ...

Keywords: anonymous authentication, group signature, identity escrow

7 Compressed suffix arrays and suffix trees with applications to text indexing and string matching (extended abstract)



Roberto Grossi, Jeffrey Scott Vitter

May 2000 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**


Publisher: ACM Press

Full text available:  [pdf\(1.11 MB\)](#)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Session 9: image indexing and retrieval: An effective region-based image retrieval framework



Feng Jing, Mingjing Li, Hong-Jiang Zhang, Bo Zhang

December 2002 **Proceedings of the tenth ACM international conference on Multimedia****Publisher:** ACM PressFull text available:  [pdf\(216.67 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We present a region-based image retrieval framework that integrates efficient region-based representation in terms of storage and retrieval and effective on-line learning capability. The framework consists of methods for image segmentation and grouping, indexing using modified inverted file, relevance feedback, and continuous learning. By exploiting a vector quantization method, a compact region-based image representation is achieved. Based on this representation, an indexing scheme similar to t ...

Keywords: continuous learning, inverted file, region-based image retrieval, relevance feedback

9 Array language support for parallel sparse computation



Bradford L. Chamberlain, Lawrence Snyder

June 2001 **Proceedings of the 15th international conference on Supercomputing****Publisher:** ACM PressFull text available:  [pdf\(312.38 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an array-based language-level approach to parallel sparse computation. Our approach is unique due to its separation of sparse index sets from arrays, both syntactically and in the implementation. This design allows users to express their computation using dense array syntax, making the code easier for readers to understand and for compilers to parallelize and optimize. This work is done within the context of Advanced ZPL, retaining its crisp syntax and source-level perfor ...

Keywords: Advanced ZPL, MPI, NAS parallel benchmarks, parallel computing, parallel language, sparse array, sparse matrix

10 Automatic data structure selection in SETL



Edmond Schonberg, Jacob T. Schwartz, Micha Sharir

January 1979 **Proceedings of the 6th ACM SIGACT-SIGPLAN symposium on Principles of programming languages****Publisher:** ACM PressFull text available:  [pdf\(1.14 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

SETL is a very high level programming language supporting set theoretical syntax and semantics. It allows algorithms to be programmed rapidly and succinctly without requiring data structure declarations to be supplied, though such declarations can be manually specified later, without recoding the program, to improve the efficiency of program execution. We describe a new technique for automatic selection of appropriate data representations during compile-time for undeclared, or partially declared ...

11 Regions: an abstraction for expressing array computation

Bradford L. Chamberlain, E. Christopher Lewis, Calvin Lin, Lawrence Snyder

December 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the conference on APL**

**'99 : On track to the 21st century: On track to the 21st century APL**

'99, Volume 29 Issue 2

Publisher: ACM PressFull text available: pdf(831.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most array languages, including Fortran 90, Matlab, and APL, provide support for referencing arrays by extending the traditional array subscripting construct found in scalar languages. We present an alternative to subscripting that exploits the concept of *regions*--an index set representation that can be named, manipulated with high-level operators, and syntactically separated from array references. This paper develops the concept of region-based programming and describes its benefits in ...

12 [Range queries in OLAP data cubes](#)

Ching-Tien Ho, Rakesh Agrawal, Nimrod Megiddo, Ramakrishnan Srikant

June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2**Publisher:** ACM PressFull text available: pdf(1.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A range query applies an aggregation operation over all selected cells of an OLAP data cube where the selection is specified by providing ranges of values for numeric dimensions. We present fast algorithms for range queries for two types of aggregation operations: SUM and MAX. These two operations cover techniques required for most popular aggregation operations, such as those supported by SQL. For range-sum queries, the essential idea is to precompute some auxiliary information ...

13 [Session 9C: On AC⁰ implementations of fusion trees and atomic heaps](#)

Mikkel Thorup

January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on Discrete algorithms****Publisher:** Society for Industrial and Applied MathematicsFull text available: pdf(996.51 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Addressing a question of Fredman and Willard from STOC'90, we show that fusion trees cannot be implemented using the AC⁰ operations available through a standard programming language such as C. However, they can be implemented using AC⁰ operations on emerging multimedia processors such as the Pentium 4. A fusion node is a linear space representation of an integer set X of size $O(\sqrt{W})$, where $W \geq \log n$ is the word-length. The fusion node supp ...

14 [Sparse dynamic programming II: convex and concave cost functions](#)

David Eppstein, Zvi Galil, Raffaele Giancarlo, Giuseppe F. Italiano

July 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 3**Publisher:** ACM PressFull text available: pdf(1.65 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Dynamic programming solutions to two recurrence equations, used to compute a sequence alignment from a set of matching fragments between two strings, and to predict RNA secondary structure, are considered. These recurrences are defined over a number of points that is quadratic in the input size; however, only a sparse set matters for the result. Efficient algorithms are given for solving these problems, when the cost of a gap in the alignment or a loop in the secondary structure is taken as ...

Keywords: dynamic programming, recurrence, sequence alignment, sparsity, time

complexity

15 Special issue on special feature: Dimensionality reduction via sparse support vector machines

Jinbo Bi, Kristin Bennett, Mark Embrechts, Curt Breneman, Minghu Song
March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available:  [pdf\(243.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

We describe a methodology for performing variable ranking and selection using support vector machines (SVMs). The method constructs a series of sparse linear SVMs to generate linear models that can generalize well, and uses a subset of nonzero weighted variables found by the linear models to produce a final nonlinear model. The method exploits the fact that a linear SVM (no kernels) with l_1 -norm regularization inherently performs variable selection as a side-effect of minimizin ...

16 Programming by Refinement, as Exemplified by the SETL Representation Sublanguage

Robert K. Dewar, Arthur and Ssu-Cheng Liu and Jacob T. Schwartz and Edmond Schonberg
January 1979 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(1.49 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


"Pure" SETL is a language of very high level allowing algorithms to be programmed rapidly and succinctly. SETL's representation sublanguage adds a system of declarations which allow the user of the language to control the data structures that will be used to implement an algorithm which has already been written in pure SETL, so as to improve its efficiency. Ideally no rewriting of the algorithm should be necessary. The facilities provided by the representation sublanguage and the ...

17 Efficient sparse matrix factorization for circuit simulation on vector supercomputers

P. Sadayappan, V. Visvanathan

June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**

Publisher: ACM Press

Full text available:  [pdf\(883.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an efficient approach to sparse matrix factorization on vector supercomputers. The approach is suitable for application domains like circuit simulation that require the repeated direct solution of unsymmetric sparse linear systems of equations with identical zero-nonzero structure. An Overlap-Scatter data structure is used to represent the sparse matrix, enabling the use of multiple operand access modes to achieve higher performance than earlier proposed approaches. The ...

18 Inverted files versus signature files for text indexing

Justin Zobel, Alistair Moffat, Kotagiri Ramamohanarao

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Publisher: ACM Press

Full text available:  [pdf\(243.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two well-known indexing methods are inverted files and signature files. We have undertaken a detailed comparison of these two approaches in the context of text

indexing, paying particular attention to query evaluation speed and space requirements. We have examined their relative performance using both experimentation and a refined approach to modeling of signature files, and demonstrate that inverted files are distinctly superior to signature files. Not only can inverted files be used to ev ...

Keywords: indexing, inverted files, performance, signature files, text databases, text indexing

19 Succinct indexable dictionaries with applications to encoding k -ary trees and multisets

Rajeev Raman, Venkatesh Raman, S. Srinivasa Rao

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available:  [pdf\(1.05 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We consider the *indexable dictionary* problem which consists in storing a set $S \subseteq \{0, \dots, m-1\}$ for some integer m , while supporting the operations of *rank*(x), which returns the number of elements in S that are less than x if $x \in S$, and -1 otherwise; and *select*(i) which returns the i -th smallest element in S . We give a structure that supports both operations in $O(1)$ time on $t \dots$

20 A New Implementation of Sparse Gaussian Elimination



Robert Schreiber

September 1982 **ACM Transactions on Mathematical Software (TOMS)**, Volume 8 Issue 3

Publisher: ACM Press

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